

UNITED STATES
DEPARTMENT OF THE INTERIOR

—
GEOLOGICAL SURVEY
—

9-138

IV.

W. H. H. H.
Room 405
U.S. National
MUSEUM

IV

1940

Reviewed
7/42

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Oct. 22 Tuesday
1940

Reverted conglomerate blocks near Stange
Washer & traced them up the hill to about
2700 feet - this was much that we found near

Oct 22 Tuesday

(for spec. 22-
24-10)

36

The Ten

2.1 2nd 5th

2.75 km/hr

285. 16. 10. 1912

2560

1890

25 cross creek
3.7 to 20' below rd 12000
3.5 cross creek

Oct 24 Thursday

36a Eden - Marysville ls. in valley above
fault with Copper Ridge N 44 E, 30 S
SE side Brushy Mt.

36b Henry is NW of Clark appears to be ls (see
sketch) - in contact with Clark limestone
~~contact is not continuous~~

I found on SE side of Clark valley
in Copper Ridge + the ls of Eden - Marysville
is probably exposed here to the Henry ls.
- drag clamping well shown

Up stream toward gap to Eden Marysville
where are known into a series of sharp
folds - first I saw was seen

36c Tensloway fossils cret. along rd N of Holly Bend
- this gave first close contact with Clinton

Oct 25
Nov 8

Traveled to Spring Town on 11/1/25
at 4010 Summit N70W, 16 S - the st
with up of Town but not with 2nd SE
- a few feet higher than two?

1330-2700 p
1190-2705
101-101000
Climbing down from top of Town; found
a small E of house E-W, 12 S - some
small but full water; (in water 10 ft)

900-2815
Small Kade N65E, 11 S - climber on 10/20 of

2015-3920
The spot is a 2nd level of the town - the st
with in the top with all of the 1st
- estimate about the st - N45E, 17 S
3rd level - small but full water - 10 ft
low to high - some at about 10 ft

Set in place near 10/20 - 10/20
10/20 10/20

2575-2700
climbing down from top of town - 10 ft
small but full water - 10 ft - 10/20 - 10/20

cit
red

10/20 10/20

1010-815
3880 - low point - climber on 10/20 of
the st - small but full water - E-W, 10 S

1010-815
low point - climber on 10/20 of
the st - small but full water - N80W, 12 S

27
 5
 18
 18

3570
 3060

→ still climbing - but around here
 This or western knob of Sugar Run Mt.

3685
 3845

→ Clinch at edge N 70° E

310

3680
3765

→ side of mountain - low summit here
Then on western knoll of Sugar Run Mt.

3685
3840

→ Clinch at edge N70W, 15S

3860
3970

→ Clinch about N60W, 15S.

4050
3835

→ and some small low ridge in picture

4290
3850

→ 50' in distance 55 -
N70W, 22S

4475
3865

→ small exposure N 70 22 S - 2nd exposure
→ 1st exposure on crest = 4th Knob East Tower

4625
3880

→ Clinch on crest → N75E ±

4740
3890

→ Clinch heavy - N70W, 10S - from top of ridge

4825
3890

→ Clinch about N70W, 10S - from top of ridge

5040
3920

→ Clinch about N60W, 7S

5165
3920

→ Clinch about N70W, 15S

5500
3920

→ Clinch about E-W, 8S - red Clinch

5630
3930

→ Clinch about E-W, 8S - red Clinch

5720
3930

→ Clinch about E-W, 8S - red Clinch

5720
3930

→ Clinch about E-W, 8S - red Clinch

5740
3930

→ Clinch about E-W, 8S - red Clinch

5740
3930

→ Clinch about E-W, 8S - red Clinch

5740
3930

→ Clinch about E-W, 8S - red Clinch

Oct 26 Saturday

Investigated at 10:00 AM. Cloudy. Windy. Tower on peak 717. Upper irregularly OK but lower obscured by heavy cloud bank. There may be a cloud by more than 60' in diameter seen.

At 11:20 AM. Tower not a large cloud bank. At 12:00 the present tower collection built up.

45 = top of steep slope - upper slope than below - not probably 1000.

557 1000 4500

See the slope by tower top - not a cloud bank? probably a slope 1550E 1500

At 1:00 PM. Cloudy. Slope upper all cloud. Not heavy. At 1:30 PM. 3:00 PM.

At 1:30 PM. Cloudy. All cloud of high tower. Top - about 1 mi. away. Road built in gap - tower, north of point highway. Cloud at level 80' (approx) (- 2750 ±)

At 1:45 PM. Cloudy. 1 mi. away. Road built in gap - tower, north of point highway. Cloud at level 80' (approx) (- 2750 ±) - not a cloud. Heavy cloud.

228
—
240

1000 Little Horn, 2000 N. of ... ~~each 10000~~ 2000

2.5 = 10000 2.2 = 10000

2

1. Little House 2000 N of it - ~~about 1/2 mi. W~~

2.5 - many ² little blue

2.7 - small ² blue, some tiny blue, all very
common - not some more - very small, small

357

2.75 - 100 ft. ² in ² N75E, not
high N - much ² dipping with E + W. ; with
Deposition, found ² some of ² some of
pts of rock so ² unique - in E low like Clinton
where that outcrop is ² resistant + form ridge
above first in more "barren" (most of it
reflected) - open rock

3.4 little red capped rock Clinton

3.65 ² Clinton - 100 ft. ²

3.7 ² Clinton - ² Clinton - 100 ft.
repeated ² - E-W, slope 5°

200 27

Sunday

38

Becroft ² Clinton (Becroft + Barre) all at
same elevation! From entire ² Clinton
in south, with small ² Clinton in ² Clinton the
plane due N70E, 45W. (Barre - 45W with
± bar; due to SE for N70E, 50W to give it
clayey sand + a fragment of Barre 100 ft. ²

deposited there. There seems to be no trace
of mineralization along fault

It is a little bit of a distance from the
road to the fault line - about 1/2 mile
up the hill.

30-33

Monday

Left town at 8:00 AM, 30 N - heavy fog

7.4 - on W of 12.5 - 1/2 mile - 1/2 mile from top

cap about 50' above - on the N side

in fact just a hill

29

At town - 10:00 AM at 1.65

From town, road goes out on a road - all
along with some top - up - going with the road
it is a little bit of a distance from the road - about
on the N side - on the N side - about 1/2 mile
on the N side - on the N side - about 1/2 mile
on the N side - on the N side - about 1/2 mile
mostly very - apparently. [Line of 5070 may be too high]

46

on road from highway - about 2.5 - 2.6
up the hill - 3360 to W - 1/2 mile - 2.6 with
road to 3270 - 1/2 mile

at 3440 there is a lot of dirt - 1/2 mile - 2.6 - very
facing like stuff to work

at 3440 there is a lot of dirt - 1/2 mile - 2.6 - very
facing like stuff to work

✓

31. 10. 01 road - 311

Oct 29

Thursday, no wind, sunny
arrived, Perris Thompson Hol. 5 22. (Clinton?)
Long Creek in creek at - elev 2550.

Perris Thompson Hol. 5 22. (Clinton?)
22. - elev 2700' (on the map)

N4E, SN
NSE, NSN

41

In left valley water to N5SE of river, top
cloud in air to 2980' level - top Lee to NE

Perris Thompson Hol.)
Up 21. from trail - heavy fog in N. the
valley and on elev 2960 - (Clinton?)
yellow & white - from fog - it possible - but
not like old film

- at 2000 - on mountain to left Lee
- at 2040 - from 20. level
- 3160 - heavy fog in N. the valley - mostly
from the valley walls - just the forest
- 3230 - top of 20. high on the valley wall
- at least + common Acropora
- 3270 - tall forest above - heavy
- 3250 - NW - CR

42

Delaware (Clinton) - very old, very old of trees - tall

32

Simon Mayersville pass road below University of Va NW side
of Shenandoah - rd from Sweet Springs W. Va to Point Bank,
Va

Oct-21

33

Holderberg
gr.

To Point Bank, Va. to examine Standhope Wadsworth
Co., Inc., mine. One chamber is established
franklinite ore, resembles ~~St~~ + carries best of all
+ red bedded clay (residual from color rock?)
some parts laminated - chert nodules rare. Iron
replaced ss. - not much good ore showing
- most of chamber is chert - small deposit - are said
to be surveying on a drilling program.

There is ore on Va 311 above (N) of mine - deposits
apparently in base of syncline - red bedded Clinton
dip under in road cut - has 4" bed red siltstone

Appalachian Ore Co., Simon Mayersville,

3 mi. N. - road up mountain to Va on State Route 5

- 1/2 mi NW of Pt - 350' above rd

Large bridge perpendicular, across can produce 520'
- on left for miles NW - very dry - residual from li?
- with chert - on main fault cone

Access road to tunnelled ss. outcrop - in mine
have gone down 60' without striking hard rock -
outcrop 30' below mine trench - chert probably
Knox - thrust on ~~Clinton~~ Clinton

- 60-70' wide - on a long strike - dip in clay
rather than replacing chert - some maps
on fault line - younger to W. - fault probably
trench 500' (probably 1200') - up to 15' stepped 10

2665 2680 - ls + hor. - just - stream reappears
 2565 ~~2645~~ - soft yellow ss under water \pm G
 2535 ~~2630~~ - hard - soft ss - + G Clinton
 2535 ~~2580~~ - hard ripple in water bottom - down!!
 2530 " " " " \pm hor
 2355 ~~2420~~ " " " " " "
 2355 ~~2380~~ " " " " " "
 2295 ~~2370~~ " " " " " "
 2330 " " " " " "
 2165 ~~2245~~ ls. N 80 E 35
 2155 ~~2250~~ " " " " " "
 2105 ~~2150~~ " " " " " "
 2155 ~~2160~~ stream bed (see below p. 1075)

2665 2680 - ls + hor. - just - stream reappears
 2725 2800 - ls + hor. - just - stream reappears
 2775 2850 - ls + hor. - just - stream reappears
 2800 2850 - ls + hor. - just - stream reappears

45 Thursday Champion Hold
 (1111. 2820 to 3370) - Clinton flow well on stream near
Here great difference in bed at 2820 to 2850
Top at 2950 (1111 = 2950)
Clinton was at first just and Clinton bed
then 2530 (actually 2780) now 2105



2620
2620
20

140
50
190
2395
2785

2620

2880
Clinton, N.Y. in place 2845 ft. to 2880 ft. - mostly
loose - sandy shale - thin - thin bedded
top 2 ft.
480E, N.S. good sh. below 2880 - 2870 2800

26
26

190
2785

2880
Clinton Hill. in place 2880 above the quarry
house - spring water here - This is probably
top of hill.

2870 E, 115 grad of hill here - 2870 2800

2870
2850 - Preston Spring - 270 E of hill
- G. Clinton + water in spring

2850
H. Spring at 2750 - 2000 up hill

Wagon Road Sunday - 21 - Eastern 250 day

2770
2595 2475 - Clinton water works \oplus

2700
2600 - road on valley side of E. - top of hill
260 dipping down - for road - but at the end

2800 2700 - top of hill

2820 2750 - top of hill

2810 2770 - top of hill - heavy down

2800 2700 - top of hill - heavy down

2830 2730 - top of hill - heavy down - all in a row
(Clinton) - no dirt (one small hill - 2)
in dirt - small in distance

2750
Up Creek falls - 2750 - dipping - average
in 20' lower - side above falls flatter
at bottom - 2776

Nov 14 Monday

29 2000 ft. up on hill. 1st of 2 abandoned
low near top of hill 13-25 ft. up hill

1. 31. ³³¹⁵ ~~3225~~ ³³¹⁵ ~~3225~~

From 31.5 ft. to 31.5 ft. - from 31.5 ft. to 31.5 ft.
³²⁷⁵ ~~3175~~ ³²⁷⁵ ~~3175~~
go down from 31.5 ft. to 31.5 ft. ³²²⁵ ~~3175~~ ³²²⁵ ~~3175~~
reappear - continue along the ³²²⁵ ~~3175~~ ³²²⁵ ~~3175~~
low water of hill across gully. NSE of
2nd. (Rising gully) ³²²⁵ ~~3175~~ ³²²⁵ ~~3175~~
low water of hill across gully. NSE of
low water of hill

low water of hill - at ³²²⁵ ~~3175~~ ³²²⁵ ~~3175~~ spring across - the
probably marks the Trenchway

over lands to 31.5 ft. level ³¹⁴⁵ ~~3175~~ ³¹⁴⁵ ~~3175~~
low water of hill across gully. NSE of
spring in valley at ³⁰⁰⁰⁺ ~~3175~~ ³⁰⁰⁰⁺ ~~3175~~
- along N of same gully (in valley) - 31.5 ft.
³¹⁷⁵ ~~3145~~ ³¹⁷⁵ ~~3145~~ - heavy water level

at 3160 ft. of crest & look into heavy 31.5 ft.
- at the same level on a sharp off
- at the same level on a sharp off
- at the same level on a sharp off
2nd. 31.5 ft. to N of Don?

chart on at ³³⁶⁵ ~~3225~~ ³³⁶⁵ ~~3225~~ (50' rise) - same as 5.5 ft.
at 31.5 ft. level

(marked the 31.5 ft. level on W. 4 mi. to S. 8.5)

Under 3060 at ... 0-35 ...

[Note - ...
...
...
...
...]

2830
...
...
...

2710
...
...
...

2740
...

2800
...
...
...

* Under ... 3110 (top 50')

[... S 20 E ...]

at ...

47

Nov. 5. Tuesday

Day 18 118° 10' N 104° 10' W

1407-3580 (0-52.74) - 1.45 ^{NE} 2.40 20 days

100 miles NNE to 60° S by ...

Nov 5

Tuesday

Day 6 Survey

47

met. 3580 (0-32.74) - 1.55 pm ^{NE} 2nd 30 deg
 1.50 mi. NSE for 60' E of the camp - very
 low water - hard to get in - some small
 water ways in the area - the water is
 The "low" measured in lower Thompson flow
 - on Little River up to 2.1 mi. 9 mi. to top of hill to
 3.0 mi. (0-22.40 ft)

3300 - 80 - 100 ft. high - very low - 1.55 pm
 435E, 62W

3150 - 100 - 120 ft. high - 1.55 pm

3300 = 100 - 120 ft. high

3300 - 100 - 120 ft. high - 1.55 pm

3300 - 100 - 120 ft. high - 1.55 pm

3300 - 100 - 120 ft. high - 1.55 pm

3300 - 100 - 120 ft. high - 1.55 pm

48

3140 - 100 - 120 ft. high - 1.55 pm

3130 - 100 - 120 ft. high - 1.55 pm

3250 - 100 - 120 ft. high - 1.55 pm

(Have been 1.35E of here)

3310 - 100 - 120 ft. high - 1.55 pm

3340 - 100 - 120 ft. high - 1.55 pm

3370 - 100 - 120 ft. high - 1.55 pm

3390 - 100 - 120 ft. high - 1.55 pm

3410 - 100 - 120 ft. high - 1.55 pm

3440 - 100 - 120 ft. high - 1.55 pm

Page 6

2-42) $ls = 1 \text{ } \Phi$ (NS $\frac{5}{1.6w}$)

2480



one small piece

2410 - 20' to 25' in hole in F

2471 - 25' (lost)

24650 - 1' hole - 25' (lost)

2475 - 6' 3" in hole - 25' (lost)

2330 - 6' hole - 25' (lost)

2365 - 6' hole - 25' (lost) ⊕

2360 - 6' hole

2383 - cross in from N

2360 - 6' hole - 25' (lost)

up creek to 2360 = 25' (lost) - 25' (lost)

apparently in place L back on 25' (lost) - 25' (lost)

2340 - 6' hole - 25' (lost)

2310 - 6' hole - 25' (lost)

2310

54

2490 - 6' hole - 25' (lost)

2475 - 6' hole - 25' (lost)

2600 - 6' hole - 25' (lost)

49

3750 Big Iron Geyser (0-31.00)

3700 - 25' (lost)

3460 - 6' hole - 25' (lost)

3410 - 6' hole - 25' (lost)

3400 - 6' hole - 25' (lost)



- 3250 Clinton of hill to N strike N30E \pm 4 dips. but
- are at ... along strike ... heavy beds of
Clinton here.
- 3180 - all Clinton fl. there - heavy ferr. and ...
becoming common - ... iron?
- 3000 - ... Clinton fl. ... not to ...
- are good on ... - ...
- 2890 ~~2860~~ - all Clinton^{fl.} - ...
here & ... - ... Fe.
- 2830 ~~2800~~ - ...
- 2780 ~~2750~~ - ...
- 2750 ~~2720~~ - ...
- 50 2730 ~~2700~~ - ...
... of ...
- 2710 ~~2680~~ - ...
- 2700 ~~2670~~ - ... N75E 40S (approx. ...)
- 2670 ~~2640~~ - ...
- 2600 ~~2570~~ - ...
- 2550 ~~2520~~ - ...
- 2410 ~~2380~~ - ...
- 2410 X ~~2380~~ - ... (it should be 2410)
- Clinton & ...
- 2430 ~~2380~~ - ...
- 2460 ~~2410~~ - ...
- ... Clinton fl. there
- 2450 ~~2400~~ - ...
- 2310 ~~2340~~ - ...

4th ... note ...

Mar 9 - Saturday

Look at Tour - 1000
Area 4366 (0 - 3350)

3400 - 4000 - 4025

[pace on this trip = 2.11']

{ 6480 - still Red 14. to here - 2nd level
3820

5860 - " " " N75E 10± S
370

{ 7296 - Red pt - same level as (see 50/100 ft)
370

- 7296 - same level as 7296

{ 7296 - Chalk? or
3795

{ 7355 - N75E 28S - Chalk 20
3795

51 { 7495 - same level - 1000 ft level Chalk
3760 - are lighter red, not color N50W 88-89
3420

7570 - same level - 500
3420

52 { 7690 - same level - 1000 ft level Chalk
3800 - 1000 ft level
3760

7770 - N40W 14S

3420 - Chalk 20

3780 - Red 14 - 1000 ft level Chalk

- heavy Cl red just below summit beds
 3870 } Summit lower part from 5050 well
 } Red Cl. on summit

3750 } 6755 - on dip 20E - white sand
 } on the floor

3750 } 5927 Cl. on N. 5 - Cl. here
 } 3805 } See p. 18 - top of brown bed
 } capped - all the way down to top of
 } cl. here.

3600 } 4085 } top of cl. slope average bed E 20
 } } } See p. 18 - E of 4085 - approx. by
 } } } N 30 E - 20

3200 } 9420 } 1st in yellow - heavy clay slope
 } 3350 } or cl. [?]

2950 } 10040 } 8' well of gully - N 10 E, 25 W
 } } } See p. 18

*

Note: Db. on Holly Brook hill N 8 E, 80 S.

53

Toward top of hill - see p. 18

54

{ Dbs - glauconite zone near base, exposed in part N 70 W, 11 S
 { - pit 7' deep in rock + 4' overburden - beds up to 2' thick
 { - sample 54 from layer 5 1/2 ft. below surface
 { - on land J.H. Hart, in rd. front of house - Dbs N 80 E, 55 S - crumpled

55

"Copper Mine" near Holly Brook
 - Dbs with pyrite + sphalerite - in part below glauconite zone - 11 ft ± below surface

Nov. 12 - Tuesday

upper part of Ore 60; Simon Meyer

iron ore at 2200 main Rd (190 to 3) [0 = 2310]

56

230' NW of NW edge of main ore pit
- the 2000' main ore pit - some
iron ore at 2200 main Rd (190 to 3) [0 = 2310]
1120 E 115 E ✓

57

Location of NW edge of main ore pit
at level 2310 (190 to 3) [0 = 2310]
found upper ore at 2200 main Rd

- up to 150' high + found main ore pit at 2200

58

N 15 E, 26 E Dr. at level 2520 - see with
F. mine - in main ore pit; long road

59

20' F across strike to level 2540
114 SE, 25 E - this probably also Dr - see
track & crumpled - pit, almost empty (due
to proximity to fault?) - see main ore pit
~~at 2200 main Rd~~

60

at level 2540 to SE to 2580' - main ore pit
of the strike shown - in main ore pit
- on SE - at 40' - proper pit; at 160' =
area (to SE) of main excavation of main
at level 2540

61

At 2765 on hill to N (120° E, 100m) and Clinton
first occurs, rounded w. of outcrop of white
gypsum (Clinton) and hills up hill. ~~Clinton~~ ^{Clinton}
is very thin in this area. The ~~Clinton~~ ^{Clinton} certainly
has a thin bed. + mine is it (Clinton) is not
mine. The dip would seem to be in
Beekmantown on a very close to fault. (More
probably in a sag between two higher parts
of ridge; although a bed may be measured elsewhere
but it is not ± in a slump dip, probably 5° E
locally Clinton is strike-slip.

62

Clinton red + buff, in a small ridge 2500
of mine at elev. 2610 - ~~Clinton~~ ^{Clinton} gyps. first
observed just beyond - no change here

63

2615 same ridge ~~Clinton~~ ^{Clinton} outcrop
N30E, 69E; ~~Clinton~~ ^{Clinton} outcrop to NW - more
gyps. after some thin ferrug. in this suggest
Clinton - NW pt. of outcrop in broadest &
essentially all lies close to fault. (Clinton) at
"Clinton" beds N45E 65E - section of
younger beds (Clinton) + 300 ft. in all
continued close to fault. also of Clinton "2600"
- this section Clinton to lower beyond Clinton is
about 200 ft.

64

Found also the bed in a separate crop some 15 ft
ferry-foss. Dr. - ~~N45E 65E~~ (slumped in pt.?)
- this exp. at 2580

ridge 2500 Clinton 1700-1800

to mountain = 2500'

65

Older (Becken, anton) la NW Sect. of Creek
at base of mountain (on SE) -
N50E, 48E - elev. 2215 - 25'

area checked in at 2170 (down 30')

Nov 13

Wednesday - Pound Mt. area

N65E, 20E = Gr with *Leptacromia* - very Rd, - E
side. Ridge line of form low on ridge over top of Gr;
This appears well up a section; good Clinton section
is exposed in Wolf Cr - RR cuts it out - N175E 30E;
Troughing for Clinton but not well exposed -
beyond Rd. The Gr. - common (but not
look for Gr. This might be just below
for Gr. for a E. mountain. *Leptacromia*

Don N20W, 13E - 15' above Rd at p. 3 mi
N of Fire Tower

Don N15W, 10E - 10' ± above Rd at p. 3 mi
N of Fire Tower Rd - This good exposure of upper
glauconitic zone (same as glauconitic zone in
"base of Gr" - this is only 1 mi ± south
of base "2" - station here for fossils in
glauconitic. *Leptacromia* study

Gully to the south of branch N10E off Rd. Rd. -
some corr. pt. on Rd 1.8 mi. from *Leptacromia* - 25'

- corner 7.1 mi out on Foyall Rd
- work 7.5
- 2nd crossing 8.6

→ [This is p 24 - out of place]

Wed 1/7 - Tuesday

→ [These p. 34 - out of place]

11/20/19 - Tuesday

2550 on foot at West Bush
Bram (25-28.5)

Big Spring 26.5' - water from Tonsley to

Rock Bar - starting at 24.5' at 1/19
at Spring Mitten
2760 (0-25.5) - 1.5'

- 2550 (25.50, - 25.5) - 25.5' at 1/19
at Spring Mitten

2590 - 25.5' at 1/19 - 25.5' at 1/19
at Spring Mitten 27° - 25.5' at 1/19

2510 - Tonsley to 25.5' at 1/19 - 25.5' at 1/19
at Spring Mitten 27° - 25.5' at 1/19

72

2460 at 25.5' at 1/19 - 24.60
at Spring Mitten 27° - 24.60

23.50 - 23.5' at 1/19 - 23.5' at 1/19

Mar 14 Thursday

Visit to Helbert Mine in Russell Co., Va.
(Va. Geol. pp 195-197, #124 old map).

- Helbert Mine (#25 on map) - $\frac{1}{2}$ mi S.W. of Helbert
mine - now operated? (see map p. 124)
- nothing done - no pit

- S.C. Helbert - (son of A. J. Helbert)
A. J. Helbert } son of
J. H. Helbert }

Mine must be pit since Nov 1918 - no work
till Aug 40

When it was stopped - take out 2 ton ore

66 misc sample of mine (2 tons & 1 rock)
- see next page

67 Sample from mine - clammal now picked -
Knox dolomite

67a - sample Horner (?) in full blown mine
Helbert Shale

Horner Shale

Very recent full blast? - auger all over pit

How, much now? - hard

28574

1450E →

20

3

12

Dug out an new opened

What a notes of run of mine as to shall in?

Source of water in washing

20'

3

12

Diect. of cuts are now opened

What a series of runs of more or less solid rock

Source of water is washing

Long new road gone - King's road - Mr. Vance, T.E.
- now write

(66)

Get samples of ore & bedrock

2560' - same (same 0)

25' track - 6' wide - 2 1/2' high - 3 in

- all workings below this - 25' in bed & just

below - all old workings about everywhere

I discovered the (1) - 25' in bed & just

below - 25' in bed & just

long & 18" wide - played out - no more

in day - all workings - as hard as new

surface - rather white & slightly rough

in day - no bed rock seen by - none

in full view

Bank 6' high - 2' in bed

Track N 50° E

- strike 45° ± to NW

h.s. 2470 - h.s. 45W



Mar. 15 - Sunday

68

N 71 E 19 ^{slightly calc.} ph. - 2090
 - in road - in the deep 100 ft

69

Obs. on Creek N 65 E road - few yds. ^{5'}
 down stream on rd. west - then N 52 W
 - within the conc. - slightly calc.
 Up stream 40 paces - N 65 E 275

*

2100
 Obs. lower on rd. at 2250 in yd. of
 on S.C. road - then - 2100
 - = Vert. - 100 ft - + 100 ft.

2160
 Amer. 2500 rd. E. Holly Rd.

GULLY West of Thompson's Hol. - from Ramsey Rd.

2840
 Amer. 3050 rd. 75

2730
 2700 - rd. - N 55 E 6 E

2695
 2800 rd. 75

2650
 2600 - gully head - rd. along here -
 2660 - rd. well - N 55 E 8 E - 83 - 85 - 86

N 56 E 285 on rd.
 on rd. 2600 (about 15' to corner) 29

~~2775~~ - but in your left

2410
stream slightly greater than the creek
NIDE SS

~~2275~~ = 7m 125 L64

~~23/5~~ - 1/11 number 12

marked on map off 3.75 ; to N on road 100
at 4.55

At 2755 - 2980' 2nd

At 2780 - 2750 - 2750 - 24th - on Luall

To R. 2690 - 2800 - Bottom Spring - on
fault 9 - said to hold up 2' in
summer

4/14/16

Saturday

Trav. south of
W. and Cherry Rd - from creek Rd
about 3000 (U=3185)

At flat on large stream a upper pt. 9-10'

At 2790 about 100' to stream

2630 - stream for R - 200' to stream

2600-2610 - 10-15' above stream R. 100'
N40E, 2W - 10' heavy ledge Clinton cc

2435 At flat from R valley wall

2400 (claring) - junction Dong R - just N of
N35W, 2W - 100'

Clinton middle ss on R bank - 4' down
at 2340 - ± 10' down stream

2300 bank on R - but just from R bank

2320 Clinton ss ± ⊕ R bank - 5' down

2360
2345 " " 7° downst Rt. cr. bank
- near to the contact at 6'

70 } upper part Clinton is hard to find
but 90' under which is grayish
bedded shale

71 } ~~2350~~
2370 Le Clinton contact 2' down on R bank
coll. for bio 3' above base

2255 - station - on R bank 500' from
contact in about 23' above stream
- dip only, to be used in transverse

2240 = Dingle Br. at Smith's

Clinton middle ss on R bank - 10' down

2570 2790

2650
2730 - Clinton fl.

2850 - first note - 100' from R bank - 100'
2570 - bank line - 100' from R bank - 100'

2450
2530 - house

{ 2520 - to W. spring line - 100' from
2440 N. 56W, 95

2430 - heavy Clinton fl.

2300 - long Bl. & heavy sand. Don fl

2255 - very long, Don - some sandstone Bl?

2200

2215

Bl. in place with sand, sand
- some Bl. N 60 E 1/2 S

2220

2260

Bl. N 75 E 1/2 S - stuff on top
- some sand, R. well, well

2110

2150

Bl. in Bl. & sand

2070

2110

Bl. in Gully Bl (should be 2070)

[see p. 14 - Bl. 2542]

2700' asch

Point Branch (cont.)

2700' or cr. - top 20' heavy sand ss.

2500' ss. ls. of the Point Branch 2570 = Ls
[with red interglacial bed = 4' ls.]

(see 2) 2570' 25'

to 72.2 m

Point Barrow (cont.)

2700 at cr. - top 20 during land on

N 1/2 W 5 mi, 4 mi back from 2270 = LS
[and at water level = 4 mi.]

N 200° E (5 mi?) = cluster of points
on Rk back of 2370

N 60° E 3 mi, 5 mi long on Rk back of 2370
Level - of fault zone there only for
to be in N² with water ~~2200~~ 2320

defect of
or side
of fault
on road page

* N 50° W = 4 mi (climatic) - cluster of
black ss 2270 - this probably
clay to top cluster? (place correct
at 2280?)

2170 - Point Barrow side - "clay at base
just N (50' too high - 200' faulting)

clay pit N 45° E 25 mi - what 22 =
cluster?

- On to rd at camp up rd back Point Barrow
2200° or more at "could be low? 2200

N 50° E 30 mi - clay - 2240

at place to E from interpret as
very + distinctive - 5° to W

27.0

This must be on N side of fault - only 65' ± above "chert" put in Clinton - no room for Lbs + Ton

170
180



The most in on N side of fault - only 65' ± above "chert" pit in center - no room for Blot Ton

2340 - Den. Dr. contact with usual glauconitic zones in Den - all regular to here - N-S ± zone

* - at 2295 - on Blot Dr. (above chert) is exposed (see # on preceding page - only 75' for 190' hole in fault) ^{for up to 2295}

- only 40 p. Bl. up on it - then chert in Den comes down - End 1st Dir. at 2360

- only 40 p. of Den then sandstone fault - Den - merge in Blot Dr.

- Blot Dr. - 1 block with good Aspidoceras

135E, 1st - good Bl. - end - 2400

VIEW, 20+ W - Bl. Bl. (above NNW N side, Blot Dr. 1st - 2200 den (± chert) - 1st fault 135E

55
945 - 1st fault below chert pit - 2295

230 - 1st fault below chert pit - 2295

Nov. 20

- Wednesday

1450 W, 501 - Top of valley at spring below pond on Lake Cr.
Charlie Meadows house

E-W, 203 - Lower Glacial Zone in Lake Cr.
one at higher level - elev ²¹⁷⁰ 2250 - on road

2250 - Road level - 500 ft. in gully - elev ²²⁰⁰ 2280
about 300

73

600 ft. from Don gl. zone road; elev 2390 + or -
600 E of Glacier house. Good fume spruce
& fir forest, *Ulmus*, etc. This probably upper
Glacial zone

Foot of gl. zone at spring in road (1.5 mi. from
Lake Cr. house) elev ²³⁷⁰ 2440 - This probably
source of all. ⁷² 73 - then + nearly vertical

Don on plateau at spring, road at spring to Lake Cr.
Gully W of Corners Hat.

2400 (2350) [2400]

2600 Top of 300 ft. gully below

80 ft. ⁵ from top of gully - elev ²³⁰⁰ 2400
gully ²⁵⁰⁰ 2560

²²⁴⁰
- 2530 - water
- 2260 - road level - Lake Cr. house

74

RD ←
 4700 235 - Dr-Don embankment in rd - 2060
 - in the center - on a line of embankment in
 Dr-D. Along N 116 Corner Rd (W of Holland)
 - probably a cut of Don - near that
 have the post (in IV)

2

3870 N side of road - about 5 - Creek -
 lower Clinton - feet - very hard

75

2940 - abandoned (Mr. mine) - Clinton
 on N side. Flat Top. 1940
 - embankment during time back near by Ben
 Johnson - water abandoned in creek
 - stopped some one - Clinton here very
 hard - some work on with a Mr.
 N45W. 20 ft ± - then N45E of
 Ramsey 2nd Gch; N15W - go to have

Very ^{crack} ridge to NE - set Clinton - by mass
 - 20 ft - near creek 2990 3060

* 70'

3060 2990 Rd at Dr-Don ✓ (at 3060)

Nov 22

- Sunday
 Little Ramsey to the Boundary Creek area
 incl 3580 (0 = 3488)

3400 emb - some of the old water flowing this out of

- 3300 find the old path, about with heavy Clinton
 like mostly small but - some large - mostly dark colored ss 38

3120
N70E 37N - heavy ledge from long ridge. These
are white ss. covering on 112. Ideal rock

2040 (4 ft to 1 bed) - heavy ledge ^{18"} ₁ ^{18"} ₁ N70E 22N

2870 - on low small patch

2860 - ledge floor

2835 - on good stream flowing SW
76 E-W, 115 - This may be third ss sample

2770 - flat top ss - probably chert in creek
bed - the silver creek, these come very
fast

2790 - at least 20' above stream on R -
- from 10 to 25' - gradually off but only
10' level - ± hor - when low dips
due to slump

2640 N70E ± 7N ± - along stream - some ss

2680 (too high) - at least 1/4 mile below
last - on same stream - ss, ± ⊕

2630 ss - in place ⁺ N60E, 21N

2611 N50E, 13NW good supple mixed chert

2570 - N50E, 10NW - hvy ss, prob. Clinton

2500 - N10W, 7W - Clinton in stream

2490 N55E, 7NW " " "

2465 N30E, 5W " " "

2415 or B.M. (USGS 2419) - \pm OK

Nov. 23

Saturday
Lonomeadow Hol

3060 (0 = 35,60)

- Dr. fl. to rd. - 2900 (E & Spring)

2840 marshy fl. - Ton. ?

2820 \pm Clinton? fl. present

2695 \pm - Mostly (if not all) Dr. fl. to here - large
blacks on L wall at 2710.

2590 \pm - Healy Dr. to here - looks like steep
dip slope

~~2540~~ ²⁴⁴⁰ - cross cr. to R - cliff above - base at ²⁵⁰⁰ 2600
level - N30E, 24W, typ. Dr. list - no
foss. seen, X-bedding well dev. - some of them
beds appear brecciated



2810 - still large, mossy etc - several feet diameter
+ white stone floor

2870 - no stone floor - looks on slope down from above

2920 - moss on wall?

2960 - still large mossy etc

2990 - white floor - covered with moss - in center
low section not overturned?

3060 - in heavy curved floor

3190 - half pt - small round Mt - hard on
floor - some dark by arrangement - Clanton?
- can find in the hole little pieces

81

3170
3220 N 68 E 133 - E - end of tunnel - N
- now shown as - Clanton?

82

3170
3220 N 50 E - 205 - deep slope on S side end
- some on floor [on E E from 9th]

3160
3210 N 10 E 142 - good end - on E slope
white friable ss

3140
3165 best ss out out - around N [also
to go on up 50']

13

3180
3250 N 40 E 165 - Clanton - N slope deep but
(pt top level ^{300'} - Clanton from
on foot slope - look back up mt)

84

~~3060~~
3060

236 - place - have crossed fault
N60E, 32S (from road.) - see cross fault
on N. side

85

~~3050~~
3050

N60E, 22S - Don't go up - Then
section apparently overturned S-N
of fault - 5/8 below fault
don't see Dls. plant

2990
3040

2970
3020

N60E 37S - Dls

2855
~~2900~~

at Dls. plant

2570
~~2650~~

at Dls. plant (should be 2750 - 5 ft high)

2545
~~2600~~

at Dls. plant in section - Dls. may

2370
~~2450~~

be in place to see
at Dls. plant

Nov. 29 - Sunday

11.3 over RR just N. Senter Sta see air map
Senter Senter Sta 2480

11.55 D02 E-W, 285 - small - some +

11.65 rd fork + take R
12.1 Cross creek - flow to S

See air map
Dls N/SE, 30 E - elev 2830 - from hill to 11
- return to 11.65 rd fork + take R

11.9 fork in rd - take L

12.1 climbing Dls hill N50E, 26SE - elev 2640
[D00?]

2820 - on timber rd - separated from 11.5 N
deep gully (timber rd probably not on
in map) - heavy brown ferrug (mud)
- looks like Dls N50E, 12 (or more) SE

2910 - just beyond - Dls N45E, 15SE - 12.55

2970 N45E, 15SE - good Dls - on road
dy, slope (ridge crest also slopes 15° SE)

3030 Dls - (Oriskany?)
- just beyond - Dls N60E 19SE

3090 Dls - on road

3140 Dls - on road N60E 12.5 - elev 1312

3440 washer - Senter mine

N35E 10SE - rd - just beyond - elev 1310 Rd ahead

3495 - cross creek

3620 - 13.75 - rd ends - Senter mine

Boyd branch near

Sunder House (East)

at E end of
workings

Have opened trench trending N30 E
bottom at 3640, width 10' - in brown
& yellow ~~material~~ clay - indurated at base
with layers of soft clayey sand -
fine sand - ~~consolidated~~ ~~thin~~ - Ton
- beds to top - consolidated - upper
half has occasional green ss & sandstone
contains fossil - white fossils in sand
by 3' red sandstone, clay - 30 p. N. trench
6' ss exp below clay

- ss exp material in yellow ground clay,
undulating, indurated & blocky

3615 - fairly banded
sandy clay is folded & indurated
- in clay a garage - trench here 12'

[same as clay under D. at (trench)]

nodules of ss in red clay above this was in
opposite (W) wall

or 5.7 p. trench (3640) only 2' below
surface ground - are large boulders

75 p. - on clay to 6' below

10 p. consolidated with sandstone & yellow
clay below ore here

(over)

88 (ore)

sur. gr.

3" ore

weathered yellow clay

2600

4000 ft. bench

(E)
probably a place where 2 other have been open
recently - similar to but smaller - all
3 in. just E of old valley

is N25°E on CCC Rd N. of Xing of Sinter
mine rd - 3490' like like Clunker [?]

- probably Clunker
- from Xing of mine Rd to junction of
CCC Rd + valley rd = 3.5 mi.
- sequence exposed - top mt. at mine
to bottom Db - Cl - Don - Db - Cl
- Db? Don? - Abz
- W. mine probably = area of pits W
of CCC rd. - Greenish wash on
hill too



Mar. 30

Sat

Ry Horse Gap to SE

Spring - elev. 3700 (0 = 32.30)

3700 is gully - choked with Clinton - heavy
 ss. below bottom \swarrow looks on ph. wall

Nov. 30

Sat

Big Horn Gap ESE

Spring - elev. 3700 (0 = 32.30)

³⁰⁰⁰
3400 in gully - choked with Clinton - heavy
as in valley, high on S.E. end -
mostly Santa Fe - gully trends four degrees
W of south line -

³³⁵⁰
3030 water appears

²⁹⁰⁰
2800 - all down slope slope to here -
D's back 20' above gully bottom -
Heavy as before, 15° down slope

²⁷²⁰
2600 heavy as of Clinton ESE 22.5° down
10' above gully bottom - L. zone - gully
bottom

²⁷²⁵
2600 - similar to last - dip lower - generally
a large stamped iron gully 5' high

²⁶⁰⁵
2500 - water first 25' past - small
D's back & present outcrop at ²⁵⁰⁰ 25 ft
below crest - dip on opposite side of gully
- crest to N.E. distance about 1/2 mile
looks like here - dips down gully about 15°
dip - water appears to be on top slope - 5 ft
in low level to N. of above mentioned hill
Crops 8' down - N75E, 20° - no fossils
marked here - some small fossils on
top hill to E - am about N80E 3



2755

Benue River - at elev ~~25~~ 25 on bank - on
chert - unusual under slope. Below
here & Benue River there is a layer
of the chert - big blocks - lie to N+E
in depression - upper Benue River
just below here is a flat - probably
underlain by sand - high pit on
Benue, here S10E

turning at 2755 2655

Benue River, here (near head of stream)
at 2655 (station for gully above) - Benue
outcrop dipping 5° ± S (or here goes 5000)

2455
2575 - no sh - creek bed - only about 6 ft here

2455
2500 - " " " " " - head S

2455
2525 - at Benue (near 5000)

2455
2525 - Benue at 2500 - upper stream
about 2400 - 7500 ft

2500 - 2425 - Benue to here - upper 2 - S Benue
1000 ft - 1000 E - spot C

5250
 .2
 1056.0
 5250
 1574.0
 1650

Dec 2 Monday

Area 3225 - entrance. Storage
 (A = 3400)

Round Mt

- 0.00 - 2290' Va. State Fair Trail to 5000'
 Also exposed in rd just off rd. road - see
 earlier work.

Dec 2 Monday

Cont. 2225 - extensive Shinarump
(4 = 3412)

Round Mt.

- 0.00 - 2220' Var. Sandstone Tank 1150' f
Dls exposed on rd just W of rd end - see
earlier note.

- 0.2 mi W N50E, 29SE - 2220'
exp. - 7. good exposed (50) contact

- 0.3+ Don (Washington R) - 2415'
N55E 44SE

- 0.5 - N30E, 37SE - Don - weathered - 2445'

- 0.55 - just below 45451 on R. - Don N65E 15SE
at this contact

0.7 N45E, 29 - better blue clay - Don?

0.75 Dls. folded + sheared ^{just below} 53+50 ft

95 Don - low W - obscure - edge sharp -
just above contact

1.0 ~~mi from Don - contact~~ 46p Don - Chert what
has been - ~~probably impossible to get a better~~
N55E, 22SE - Chert some fault - but then
may be same D - no good deep exposure

✓
 - maybe enough room to get Dr + Ton. - there
 is gully + covered interval above Clinton - then good
 outcrop highly subbed Dr. - then Don to
 turnout (78+06) - N78E, 270 = Don good road
 - glauc. zone exp here + deep red beds in Don
 (due to weathering of glauc. z.) - note; Don
 exp. at rd. level for 38 p. below turnout - good
 upper + lower glauc. - etc. excellent place to
 study Don. Mileage here is 1.2 + corner
 2680

- at 79+20 (turnout on sheet 7) N60E, 295 Clinton is exposed under
 outcrop - above it strike is mostly lat. below it
 in rd are good crops of Dr + Don but there
 seems little room for much Ton.
 - at mileage 1.3 Don E-W 21S (= Turnout at
 82+93 on Sheet 7)

N75W, 235 = Don below 89+20 + N60W 295
 1/2 to within 55 p. of Sta. 89+20 (4 p. above
 about 12 p. are certainly Clinton sl. - rest
 Dr. floor - room for very little Ton. - at
 dip in strata - Cl. + younger exp.
 Beyond Clinton at 89+20 - on up hill,

0-36 p = covered interval for any T
 36-63 p = Dr N70W, 275
 63- = Don.

all Don in zone between 74+96

gully at 99+19 in between Don & De
Don = EW, 150 - Dr. N75W, 255 - Db
for 60 ft from center culvert - then back
to Don

Sta 115+90 on just below first Clinton

Db N80W, 205 - 0 paces

Dr. under above 45

W. side road 62 - Sta 115+90

72 = culvert

Clinton N55E, 122 90 - mileage - 2.0

dec 2895

2 Note - all practically all section Clinton str.
N some E & in low part Dr. & De on N some W
& higher E S - if above section on under part
then can be very little ls on this mt. - if any

- 2.2 Clinton N55E, 155

2.5 - 0 N55E, 205

2.65 - 0 N60E, 165

59+75 = millage 2.8 + elev 3140

mileage 2.1

75 p. (on rd) below 159+75 Clinton arches under

Dr. ~~200 ft~~ red clay - N70W, 435

20 p. (on rd) below that is correct from our records

rd - 15 p. below in regular Clinton N45E 15S
← mileage 2.8

Sta 159+75 on well raised Dr. hill
where much branching has been done
on both sides rd. - to R below rd.
Dr. here on bench N60E, 35 but
almost level

rd - 15 p below a regular cluster N45E, 10E
← mileage - 2.8
Sta 159+75 in well used Dr belt
where much branching has been done
on both sides rd. - to R below rd.
Ab here on bench ^{850 ft} H. out, 35 ft but
at higher level beds are almost flat
- some m. - 21 p. 58 for Calano rd.

Dec 3

Turn
To Charleston to see Boyd
Up CCC Rd. some 1/2 mi
2564 (0 = 3400) - about N65E - 10 E

90

N35W, 55N - Ton 2705 - + 15 ft. gully below
shale covered
N75W, 47N - Clinton - probably in place 2734
- also gully side - car in S + E

Cramer } Saltville, Va.
Duffer of four years
Halcyon } - Emory, Va.

6000 ton prod.
Lost mine - not worked. Since lost war
West Mine - lost few years - 1000-2000 ton

60E of old lost mine - 1/2 mi. from
"lost" - not worked - 1000-2000 ton

2212

-at 5.1 are of ph. where rd is to be
straightly - Clinton - id. here - no ore
reported beyond this point

94

Back to main benches noted above - here off
to NW of Rd in big area where Patterson
prospected for iron - red sampler and
few fossils - then Clinton OK but could
get no exposures after long search

95

On beyond (NW) of Fe in area (said to
cover 1/2 - 20 acres) littered - locally
extremely - with iron. float &
some Clinton ss - thin to be banded.

2340 - elev. Creek at bridge - N 45 W 27 NE

- N 45 W 27 NE - north - Fe on RR

2340 - elev. 2370 - Tram. line crosses the
1130 ft. level

2340 N 40 W 36 NE - 8 miles SW - 2370 elev.
(2340 ± fixed between this loc & loc 1)

96

- up gully to 2510 - Clinton N 65 W 27 NE
- then ss, with green & red shales - note
how dips flatten from valley up ward

O P N 35 W

64 P N 10 W

97 78 p E-W, 39 N gtyto - probably
not a place Elev 2480

142 p - 2445 - Top. 1450, 28W - probably
dumped - 5-6' exposed

215 p 1450 E (Tran to Rd 1450 E of here)

255 - Elev N45W, 45 NE - elev 2450

273 - RR

295 - Creek - elev 2375 (top of 135')
(Tran from Rd about 1/2 mi N)

2380 - G. H. mill - Elev here

2440 220W, 25E - Elev - gully

2500 top of gully - (top of Den
feature up stream) N22E, 11E - Elev
about 2500

2570 N20E, 24E - Elev in gully

M. & D. - near top N60W from Mill

2830 - Elev - N35W of Mill - N15E ± 20E

99 3070 - Elev with the topography, N45W of
Mill 57

✓
distance of 70 at least
- greenish like Stanger - are 10 50'
below crest the ridge

Dec 5

Thursday

Round Mt. - Balance of 2010's & Harder

CSC Fire Trail #5019

0.00 - elev. 2290 (0 = 3112)

{ 2.95 Clinton N60E 9SE - rd below crest } 164 + 20
3100' " N70E 9SE - " " " } crest?

- could get under the down rd with changeover sign
+ thin ls. only - opening narrow in gully down
rd - ~~out at top Clinton?~~

3.1 Clinton N55E, 12 SE - heavy or (at 3.1 +
Clinton above are disturbed - always?)

3.2 under green sh + rd - upper Clinton
N55E, 11SE

3.3 Clinton
N75E, 5SE

3.4 = 192 + 75

3.6 = Green Rd + rd to Sinter Mine

3.7 + Clinton
N75W, 3S

4.05 Clinton

N15W, 14-20E - elev 224 + 20

4.2 Clinton

N5E, 15E - elev 232 + 2 (just above
creek)

4.5 Clinton

N25W, 10E - quarter to road.

4.55 Red Clinton

N85W, 14N - slumped?

4.7 Clinton?

heavy ss. - st. sand

N55W, 17N - elev 3570 - 25' + ? - st. stone

4.95 Clinton

heavy ss. - X-bedded

N80E, 4E - pts. of crop (2)

100

5.05 Clinton

^{climb} heavy 2-bedded layer - 19 ft. to 25'

N75W, 14N

5.2 Clinton

red - thin X-bedded ss

E-45, 25N - 285 + 20

101

5.35 Clinton

heavy 18-bedded - ss

N65W, 28N - 292 + 50 + back up

5.5 - creek Sta 298 - elev 3755

102

5.6

Jurata elev 3700 - N75W, 17N, red sh. + ss

= just above 304 + 00

517 - E-W, 42N - Junction = 309 + 75
E-W, 30N - " probably - sh
& x-bedded in - some of yellow &
sandy = 511 at contact point

N85W, 29N 0' to 1' - red sh
- E 2K. " - 1' to 2' -

5.7 - E-W, 42N - Juncta = 309 + 75
E-W, 30N = probably sh
& v-bedded in: some sh yellow &
sandy = 311 or colored pit

N85W, 29N Pit - still Jan - and sh
in sh - to 3 1/2" - pit of sh and
= 313 + 00

5.85 N70W, 39 N - Jun. = 318 + 75

5.97 Contact Jun + E-Marysville sand
at 319 + 90
E-N7 yll-green sh
N75W, 35N

N75W, 33N, E0 - May = 322 + 50
- the last exposure (it being shot over)

Amended in at 2235 (-55 to 200)

$$\begin{array}{r} 4 \\ 23 \\ \hline 2125 \\ 260 \end{array}$$

$$\begin{array}{r} 2120 \\ 260 \\ \hline 2380 \end{array}$$

Line 6 - Boulder

Visited hill S. of Decatur Co. SSE, 20
 Little Horn Gap. (SSE of Gap) - 3560
 up good RR to 8000, BS - ann 2500
 (10-30-0) - low - low to 2125
 - ann Great Hwy 2125 (road level)

R. I

~~1-3~~ = Blank
 4 - Big Horn Gap from Great Horn - from

Dec 6 - Jackson

Visited hill S. of Diamond Cr. SSE of
Little Horn Gap (SE of Gap - 5⁵⁶
up road 20 - 5000.85 - am 2300
(10 = 30.10) at base camp - down to Cr. at 2390
- am Diamond Cr. 2125 (at base)

R. II

~~1-3~~ = Blank

4 = Big horn gap from Diamond Cr. - from
S. side looking clearing on E bank

5 = Fork

3 = Diamond Cr. - from Horn clearing on
R bank Diamond - F 16, E 1/5 - 1/2 am
and fallen

R II

143 Run of Horn Ridge - long Cr. Mt.
6 from west side - F 16 & 1/25 no fallen

104

Tan. Horn - Horn Gap, R. bank Diamond Cr.

- do. fork on Horn Ridge (end of
Diamond Thompson Cr.) - R. bank just above
the gap

Strange probably 2nd. Horn
cut off to R. bank Cr. 111000, 2111
etc. - some run. but not much

105

To top of ridge on R. bank Cr. a large flat top
not right with ridge - like wrong mark - no
of so (about 100 ft)?

Nov 7

Saturday

At the Hon. Gap, 3580 (0 = 3170)

106

Clinton Reef - limestones - elev. 5555 - about
1/4 mi ESE Gap - on map.

Point below at 5340

Between peaks 2 & 3 up to 5340 - Clinton
limestone on steep dip slope N55E 33SE
- with large horizontal beds heavy at many
places to point 3 - (a little southward of 3) where
we are back of the main point at 5310.

From the gap to the point at 5340 - the
main point at 5340 - the point at 5340 - elev.
5260 - on the main point - elev. 5260 - elev.
5260 - elev. 5260 - elev. 5260 - elev. 5260

SE to Jenny Carter Hollow - at 5 at 2975
where Clinton outcrops only N65W, 12S
- just below 11700 - elev. 5 - little road in

2995
2965 - on dip slope on point - cliff face
well on the point NW - N80E, 12S - 700 ft. the
heavy Clinton - lower layers - base of cliff
at 2980 - elevation 2980 - L wall hollow
2905

dip gradually increases down slope - up to
150 at elev 2880 2805

2775

2850 - R. left - 5 min. climb - long climb to
N 65 E 1850

2665

2746

109

2746 - 150 E 185 - good run on
place in park and at good - later like
good prospect - rain starts - 2' exp above
cr - some iron

2675 - 150 E 185 - very dense - on a run
- some iron - 150 E 185 - 150 E 185
on L at the foot - may be 150 E 185
- 150 E 185 - 150 E 185 - 150 E 185
- 150 E 185 - 150 E 185 - 150 E 185

2570 - 150 E 185 - 2410 E = 100 E 185

2460 - 150 E 185 - 2410 E = 100 E 185
(150 E 185 = 75 E 185)

Dec 9

Monday

0! on NE of old to (Tadpole) Main town as
a low elevation NW of (Tadpole) Rd - 150 E 185
- 150 E 185 below it - contain water and
of water

R.I. 107

107 - 150 E 185 - 150 E 185 - 150 E 185
- 150 E 185 - 150 E 185 - 150 E 185
- 150 E 185 - 150 E 185 - 150 E 185
- 150 E 185 - 150 E 185 - 150 E 185

Mr. Markham has 15 year lease. Are
240 owners. Burre property.
Board Towner gave lease to Markham
- her 60-acre ± leased.

P. III 121 D6 - Don contact Holly Brook - L Bank

122 Brandy Mt Gap left, SE from Holly Brook
123 " " " " " - closer

Don in Brandy Mt Gap (N. bank creek) 153E, 54S
- also enough in area to see also exposed
in N bank

124 D6 - overturned - Brandy Mt Gap 58E, 25S - 25'

125 D6 - Chert in " " " dips 43E, 51N, 45E ^{N62E}

P. IV 126 } Dug pit in Eden-Marysville, N. bank, Mt Gap
127 } - true color here & explanation

127 127

D6 - Ls contact along SE of Mt. Holly Brook - 50'
also on - Holly Brook - contact at Holly Brook
about 1/2 mi. N of Holly Brook

Ferry - contact at Stange Mountain - 2270 ±

20 D6 Stange Mountain looking toward N Pit - 51E, 1/2S

21 D6 } Same Stange Mountain - 51S, 1/2N

24 R 21-2

26 D6 Looking N 10W toward Mt. in NW from Stange Mountain

19 VI 22

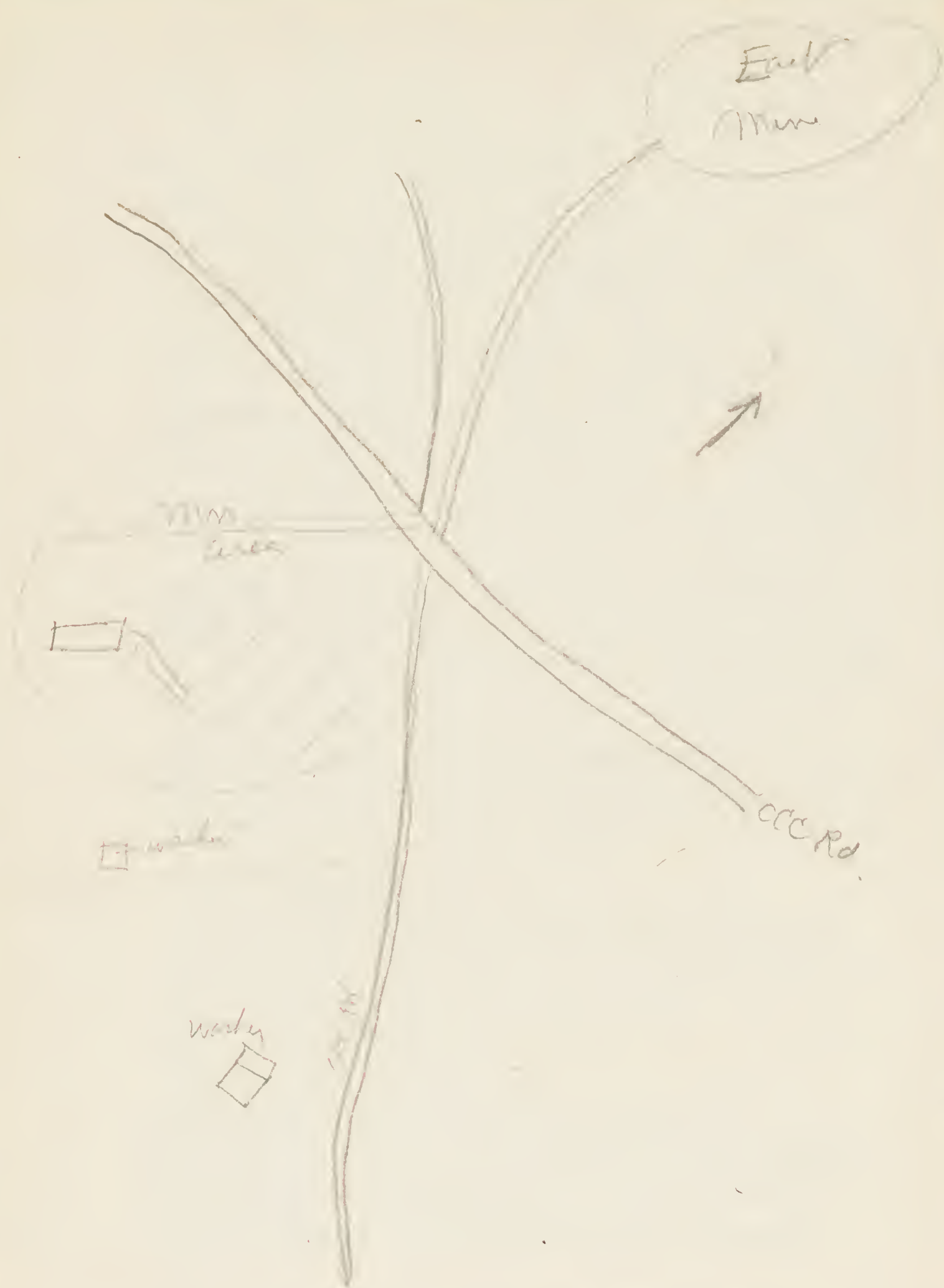
28^π

293

30

31

Limon Cydonia 27



East Mine - West mine
 Rd. mt.
 1000 ft. lower

parallel to first branch of Boyd

Dec 10

-Tues-

Marquette ship to Mt. Park & M. Co.
 -car every 5 days in good weather (35 & 40
 long time for car) - leave from Byrnes
 Hill -

Eastern Mine - West mine
Get out
see through

parallel to first track opened by Boyd

Dec 10

- Train

Marquette ship to Met Paint & Ink Co

- car every 5 days in good weather (35-40
long tons per car) - learn from Byrnes
Hein -

- Maroon using 1/2 yd. for shroud

- Stange has shipped 17 cars since I
have been here

Rocky Gap Section - 100 sections

116
Dow Shen

1 0 0-S28E-1

2 1 1-S36E-2

III

3 2 2-S35E-3

4 3 3-S37E-4

5 4 4-S27E-5

6 5 5-S16E-6

Remarks
Base of Clinch

Heavy Cloud N65E, 30 S

Artrophycina layer at
base of Sta 12+43

Clinch - Clinton contact
at 2 1/2 + 12

[N 83W, 315 - mostly same
4-5]

Clinch N74E, 395 and
900

Very heavy S. layer - top
at 5 1/2 + 25 - probably layer
on Clinch - Clinton contact
then green ss

at 5 1/2 + 91 - layer
topped - at 5 1/2 + 24
N79E, 285 - 307/6

7 6 6-S1E-7

8 7 7-S8W-8

9 8 8-S15W-9

In S. of road and road at
7 1/2 + 14

8 1/2 + 14 - top Clinch N80E
305

Dec 14 Sat.

Stopped in Sand Springs, N Va. to keep
appointment with Dr. W. L. Traubman + Dr.
Moorman, who, being, I suppose, in the
(due to my late arrival latter left 15 min before I
arrived)

Dr. Traubman owns 475-500 acres located
6 mi. south of Va. line in Md. including south
from Sand Bank (.9 mi. N. line to turn on
Traubman property) - property there to the N.
(see brief mention in source location). I partly
prospected for iron in early days. Traubman
has opened some of his land close to old
iron prospects & has uncovered some
good iron. But here at elev. 2475 - on
430' above valley road - on S.W. side of the Mt.
Box, in fact lies N 69 W, 25 N - is just at
another N 45 W, 18 N - with something
like Onondaga but contains chert. Heavy
red Clinton floor lies all around & is
said to extend higher up on mt.

